

PROCEEDINGS OF THE
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ORDINARY MEETING

WEDNESDAY, 2nd MARCH, 1960, at 5.30 p.m. (Tea 5 p.m.)

AGENDA

1. Confirmation of the Proceedings of the Ordinary Meeting held on 20th January, 1960.
2. Announcement of Vice-Presidents for 1960.
3. Recommendations of candidates for Fellowship. First reading.
4. Recommendations of candidates for Fellowship. Second reading.
5. Announcement of election of new Fellows.
6. Additions to the Library [see p. 3].
7. Admission of Fellows.
8. Exhibits.
9. Communications.

1. Dr. J. S. Kennedy

Colour vision and host finding by Aphids

[ABSTRACT]

From observations of low-flying aphids in the field, and measurements of the spectral composition of light reflected from various leaves, soils and skies, it is inferred that distinguishing one kind of plant from another is probably a secondary function of colour vision in aphids. By this means the "yellow-sensitive" species will be assisted in finding host plants of the right physiological type (*e.g.* trees *versus* herbs) but not usually of the right species, genus or family. The primary function of aphid colour vision may rather lie in distinguishing plants from sky. This will help to maintain low-level "alighting flight" during which the plant cover is sampled and host plants are distinguished only after alighting.

2. Dr. J. H. Mundie

The activity of insects at the surface of Lac la Ronge, Saskatchewan.

[ABSTRACT]

Large lakes usually lie in drainage areas with low rates of erosion and consequently are biologically unproductive. Their insect faunas are therefore sparse and present attendant sampling problems. Opportunity was taken to sample insects on Lac la Ronge (area 500 sq. miles) by means of a coarse double plankton net which was hauled horizontally for 600 m. at the surface over selected depths of water. Hauls were made hourly and it was found that adequate samples could be obtained which were representative of extensive areas of the lake. Two questions were investigated: the diurnal periodicity of emergence of Chironomidae, and the occurrence at the surface of non-emerging insects. Analysis of the catches showed that *Psilotanytus rufovittatus* v.d. W. was one of the commonest chironomids of the 0-5 m. zone and its pupae rose to the surface mainly between 10 p.m. and midnight. The adults emerged almost at once. *Procladius choreus* Meig. had its main ascent from 5 m. about 2 hours later, but in deeper water rose in fairly uniform numbers from 9 p.m. until 3 a.m. Its adults did not emerge for several hours. Among other insects taken at the surface at night were chironomid larvae, including fourth instar *Chironomus* larvae above 22 m., ceratopogonid and trichopteran larvae, and ephemeropteran and corixid nymphs. These findings show that many immature insects share their existence between the mud and the overlying water.

NOTICES

The next meeting will be held on *Wednesday, 6th April, 1960*:

Dr. J. E. Harker, Mr. P. F. Mattingly and Dr. J. L. Cloudsley-Thompson.—Animal clocks.

PROCEEDINGS OF THE ORDINARY MEETING HELD ON 20TH JANUARY, 1960

Dr. B. P. UVAROV, C.M.G., F.R.S., President, in the Chair.

Present, 74 Fellows and 10 Visitors.

The minutes of the Ordinary Meeting held on 2nd December, 1959, were confirmed and signed by the President.

The names of the following candidates for election were read for the first time: Group Captain Lawrence Washington Burgess, R.A.F. (Retd.), B.A.; Mr. David John Galley; Mr. Peter David Harris; Mr. Anthony John Oliver; Mr. Gordon Pritchard; Mr. Stanley Arthur Richardson; Mr. Louis John Saliba, B.Sc., B. Pharm.; and Mr. Ronald John Spittle.

For the second time (taken as read): Mr. John Stuart Edwards; Dr. Alastair Fraser, B.Sc., Ph.D.; Mr. Roger F. J. Markey; Mr. Alan Tunnard Marshall, B.Sc.; Mr. John Michael Nelson; Mr. Hans Raj Pajni, M.Sc.; Mr. Farooq Ahmad Siddiqui; Mr. John Strangways-Dixon; Dr. Mavelikara Godavarma Raja Varma, B.Sc., Ph.D.; and Professor Mahendra Kumar Varma, M.Sc.

The Secretary read the names of the following newly elected Fellows of the Society: Mr. Samuel Apeji, Imperial College, Prince Consort Road, London, S.W.7; Dr. Robert E. Blackith, Ph.D., D.I.C., A.R.C.S., Imperial College Field Station, Silwood Park, Sunninghill, Berks.; Mr. Richard James Brunning, B.Sc., Chatfield, Shortway, Amer-sham, Bucks.; Mr. Anthony Eve, B.Sc., 78 Grosvenor Avenue, Carshalton, Surrey; Mr. Alan Charles Eyles, Imperial College, Prince Consort Road, London, S.W.7; Mr. Bruce Ing, 30 Elmcroft Street, London E.5; Mr. Surrinder Nath, M.Sc., Panjab University, Hoshiarpur, Punjab, India; Miss Joan E. R. Salter, Anti-Locust Research

Centre, 1 Princes Gate, London, S.W.7; Mr. George James Smith, 5 Hatfield Road, Bedford Park, Chiswick, London, W.4; and Miss Hilary May Walker, Alfretton Road, Swanwick, Derby.

Thanks were voted to donors of gifts to the Library since the last meeting.

The Secretary read for the second time the nominations for Officers and Council for 1960.

Mr. D. I. Chapman, Mr. Anthony Eve, Mr. M. E. Marchant, Miss J. E. R. Salter, Mr. G. J. Smith, Mr. G. M. Spooner and Mr. T. A. Taylor signed the Obligation Book and were admitted Fellows of the Society.

Dr. W. D. Hincks introduced and spoke at the conclusion of a programme of short papers on the insect fauna of Malham Tarn, which had been investigated from 1954 to 1958 by a group of members of the Entomological Section of the Yorkshire Naturalists' Union. Mr. J. H. Flint spoke on the Coleoptera and Hemiptera, Mr. H. M. Russell on the Diptera and Mr. H. N. Michaelis (a visitor) on the Lepidoptera of the area.

PAUL FREEMAN, *Honorary Secretary*.

ADDITIONS TO THE LIBRARY

Presented

- Antoine, M. *Coléoptères Carabiques du Maroc*. 3e partie. 8vo. Rabat, 1959. [*Mém. Soc. Sci. nat. Maroc., Zool.* (n.s.) 6.] [The Publishers.]
- British Museum (Natural History) *Economic Series* 1. *The Housefly*. 7th ed. 8vo. London, 1959. [Pamphl.] [The Trustees of the British Museum.]
- Ferté-Sénectère, M. F. de la. *Monographie des Anthicus et genres voisins*. 8vo. Paris, 1848. [Professor Sir Harry G. Champion.]
- Grigorjeva, I. F., et al. [*Library of the Academy of Sciences of the U.S.S.R. Guide-Book*.] 8vo. Moscow, 1959. (*In Russian*) [Academy of Sciences of the U.S.S.R. By Exchange.]
- Mulsant, M. E. *Histoire naturelle des coléoptères de France*. Pts. 1-35, 37, 39-40. 8vo. Paris & Lyons, 1839-85. [Professor Sir Harry G. Champion.]
- Wigglesworth, V. B. *The control of growth and form: a study of the epidermal cell in an insect*. 8vo. Ithaca: Cornell Univ. Pr., 1959. [The Author.]

Purchased

- Insects of Micronesia*. 12(3) *Diptera Ceratopogonidae*, by M. Tokunaga and E. K. Murachi. 12(4) *Diptera Psychodidae*, by L. W. Quate. 8vo. Honolulu: Bishop Museum, 1959.
- Stichel, H. W. *Illustrierte Bestimmungstabellen der Wanzen*. II. *Europa*. (Hemiptera-Heteroptera *Europae*) Vol. 4, hft. 13. 8vo. Berlin-Hermsdorf, 1960.

In addition, separates have been presented by Dr. W. Peters; Stations fédérales d'essais agricoles, Lausanne; Mr. T. Gledhill; Dr. B. R. Stuckenberg; Mr. J. J. Steyn; Mr. J. S. Taggart; Los Angeles County Museum; Mr. A. N. Brangham; Dr. G. Pleskot; Mr. A. Aston; Commander G. W. Harper, R.N.; West African Institute for Trypanosomiasis Research; Professor V. B. Wigglesworth; Dr. N. E. Hickin; Commonwealth Institute of Entomology; Hope Department of Entomology; Dr. G. T. Tonapi; Mr. A. E. Gardner; Mr. T. Lewis; Dr. A. Neboiss; Dr. H. F. Jung; Prof. A. F. L. O'Farrell; Dr. H. C. Chiang; Dr. J. E. Treherne; Mr. N. C. E. Miller; D.S.I.R., Auckland; Mr. J. Cowley and Professor D. S. Bertram.

NOTICES

HANDBOOKS FOR THE IDENTIFICATION OF BRITISH INSECTS PARTS NOW AVAILABLE

I. Part 2	<i>Thysanura and Diplura.</i> By M. J. Delany.	8 pp.	2s. 6d.
„ 5	<i>Dermaptera and Orthoptera.</i> By W. D. Hincks. (Second edition).	24 pp.	6s. 0d.
„ 6	<i>Plecoptera.</i> By D. E. Kimmins.	18 pp.	3s. 6d.
„ 9	<i>Ephemeroptera.</i> By D. E. Kimmins.	18 pp.	3s. 6d.
„ 10	<i>Odonata.</i> By F. C. Fraser. (Second edition).	49 pp.	10s. 0d.
„ 12-13	<i>Mecoptera, Megaloptera, Neuroptera.</i> By F. C. Fraser.	40 pp.	10s. 0d.
„ 16	<i>Siphonaptera.</i> By F. G. A. M. Smit.	94 pp.	20s. 0d.
IV. „ 1	<i>Coleoptera : Introduction and Key to Families.</i> By R. A. Crowson.	59 pp.	10s. 0d.
„ 3	<i>Coleoptera : Hydradephaga.</i> By F. Balfour- Browne.	34 pp.	6s. 0d.
„ 8(a)	<i>Coleoptera : Staphylinidae (part).</i> By C. E. Tottenham.	79 pp.	15s. 0d.
„ 9	<i>Coleoptera : Pselaphidae.</i> By E. J. Pearce.	32 pp.	6s. 0d.
V. „ 5(b)	<i>Coleoptera : Phalacridae.</i> By R. T. Thompson.	17 pp.	3s. 6d.
„ 7	<i>Coleoptera : Coccinellidae and Sphindidae.</i> By R. D. Pope.	12 pp.	2s. 6d.
„ 9	<i>Coleoptera : Lagriidae to Meloidae.</i> By F. D. Buck.	30 pp.	6s. 0d.
„ 11	<i>Coleoptera : Scarabaeoidea.</i> By E. B. Britton.	29 pp.	7s. 6d.
„ 12	<i>Coleoptera : Cerambycidae.</i> By E. A. J. Duffy.	18 pp.	3s. 6d.
„ 15	<i>Coleoptera : Scolytidae and Platypodidae.</i> By E. A. J. Duffy.	18 pp.	3s. 6d.
VI. „ 1	<i>Hymenoptera : Introduction and Key to Families.</i> By O. W. Richards.	94 pp.	20s. 0d.
„ 2(a)	<i>Hymenoptera : Symphyta (part).</i> By R. B. Benson.	47 pp.	10s. 0d.
„ 2(b)	<i>Hymenoptera : Symphyta (contd.).</i> By R. B. Benson.	88 pp.	15s. 0d.
„ 2(c)	<i>Hymenoptera : Symphyta (concl.).</i> By R. B. Benson.	114 pp.	20s. 0d.
VII. „ 2(a)	<i>Hymenoptera : Ichneumonoidea (part).</i> By J. F. Perkins.	116 pp.	25s. 0d.
VIII. „ 2(a)	<i>Hymenoptera : Chalcidoidea (part).</i> By Ch. Ferrière, G. J. Kerrich.	40 pp.	8s. 6d.
„ 3(d)	<i>Hymenoptera : Proctotrupeoidea (part).</i> By G. E. J. Nixon.	107 pp.	20s. 0d.
IX. „ 1	<i>Diptera : Introduction and Key to Families.</i> By H. Oldroyd. (Second edition).	49 pp.	7s. 6d.
„ 2	<i>Diptera : Nematocera (part).</i> By R. L. Coe, Paul Freeman, P. F. Mattingly.	216 pp.	20s. 0d.
X. „ 1	<i>Diptera : Syrphidae.</i> By R. L. Coe.	98 pp.	17s. 6d.
„ 4(a)	<i>Diptera : Cyclorrhapha (part).</i> By F. I. van Emden.	134 pp.	20s. 0d.

Fellows of the Society may purchase one copy at a discount of 25 per cent ;
additional copies at the full published price.